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Office Memorandum • UNITED STATES GOVERNMENT

ro : T	he Files	DATE: 1 June 1954	
FROM :			25X′
вивјест: Т	rip Report - Contract PSC-148-UNV		
Illino	. A visit was made to the facilitois, during the period 24-27 May 19	ties of, Chicago,	25X′
Techni Contra 25 RS- compan at len	actor, upon arrival at the plant we consider the following the consideration of the constant was according to the constant of	which had been originated by the e were informed that a pilot run of he test results were available. The discuss the pilot run test results gain authorization for full production.	
3	Proje Asst. Engin	Engineering ct Engineer Project Engr.  deering Production deering Production deering Production deering CIA	<sup>2</sup> 25X
by produce be in	at the ction representatives and assurance vestigated. A matter not resolved	Notes were taken by the ses were given that these matters would at the meeting concerned the 2-6A and the subject of TAR 26 and 27	25X′ 25X′
respect not al was es	ctively. said that t	the Radio Condenser Corporation was the required tolerances and that it tease production. That this is true	25X′
		from the Radio Condenser claims that the condensers meet sed by Navy Inspectors at their	25 <b>X</b> 1



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	b.	Quality control ofstated that almost a 100% inspection of the condensers are made and that tolerances are generally within .2 mmf per 10 degree rotation. (Better than specifications).	25X1
ř	c.	pointed out to and me prior to the Chicago visit that may be aligning the RR-6 receivers with the incorrect capacitor minimum. The correct minimum lies 180 degrees from fully closed. A second and incorrect capacitor minimum exists with an approximate 190 degrees of rotation from fully closed, and that a quick check on correct minimum is to tune the receiver beyond the 15 megacycle point where a 15 megacycle signal should again be observed. If this cannot be accomplished the wrong minimum has been used with resultant calibration inaccuracies.	25X1 25X
	d.	Production Engineering indicated the possibility of condenser characteristics being changed due to the strain exerted on the component when screwed to the receiver housing.	
equaled be deve	production	agreed that it was hardly position that they are equipment that neither met the equipment specifications nor delivered prototypes. It was agreed that the following day would to discussing the pilot run of the RS-6A equipment, and that the people would be excluded from such talks in order to minimize	25X1
6,	Tue	esday morning, due to the non-availability of was  Was was was was was was was was was was w	25 <b>X</b> 1
of equi spring by an e line pr tautnes	ipment on the extend resent as can	Among these was the anti-backlash ne condenser gearing. Previously this spring had been held taut ded length of the shaft set screw. Components on the assembly thy do not have this screw with the extended length and spring anot be accomplished in the earlier manner. This matter had been brought to the attention of the production personnel. A visit	25X
was mad			25X1
		made to production engineerings screen room and	25X1
superv	ised t	the phasing operation as conducted by	25 <b>X</b> 1
		ring the unit within any degree of calibration accuracy required	
		ification. It seemed apparent that once a condenser is knifed a restored to nominal tolerances.	
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7. The afternoon was devoted to a study of the RS-6A pilot run test data. The data available indicated that the equipment specifications had not been met on several instances and further that realistic characteristics



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error.

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to be derived as a result of the pilot run are lower than might be anticipated. The principal defects are poor calibration accuracy of the receiver and reduced power output of the transmitter. Although the image rejection of the accepted prototypes is 33.6 decibels at 22 megacycles, the test results of the 25 pilot run receivers range from 26 to 18.2 decibels at 22 megacycles, the nominal image rejection being 22 decibels. The undersigned expressed the view that further relaxation of the equipment specifications would not be favorably received by the Agency and suggested that an engineering to determine the causes for downinvestigation be undertaken by 25X1 took this as meaning that they would graded characteristics. 25X1 run tests on new equipment and submit such data to the Agency. It was pointed out that what was wanted was an engineering investigation directed towards improving the equipments characteristics on the production line. It would make such an investigation and that such an was agreed that 25X1 investigation would take approximately two weeks and that improved quality control of the production line would be inserted on a running basis. 25X1 indicated that initial production would be at a rate of approximately 12 sets per day (50% of normal) and that the initial 50 sets produced would be the subject of an engineering investigation. The undersigned agreed to accept a temporary TAR providing the engineering investigation was written into it and that it would be subject to approval by the Washington, D. C. Office. had to leave for New York because of a death in the family and was 25X1 not present at hereafter. 25X1 8. The following day was spent in gathering test data and assisting in the preparation of the TAR. It might be pointed out that all test data on the transmitter was not available since the initial data presented was found to be in error. Consequently, new and only spot check data was gathered on the pilot run transmitters for minimum power output and these data were incorporated into the TAR by Further reluctance at acceptance of 25X1 the TAR Thursday Noon, at which time it was completed, came with indications that the transmitter's harmonic radiation exceeded specifications and that further relaxation would be sought by the Contractor. 9. It would be desirable if our calibration accuracy requirements were supported by a curve. The specifications stipulate a maximum calibration error that may exist over a portion of the frequency coverage. [ 25X1 interprets this as allowing the full maximum over such a range. The theoretical design consideration upon which the condenser is based would permit this maximum to exist at a single point and thereafter the calibration error would decrease with frequency. phasing of the units does 25X1 not reflect such design and consequently with the maximum or near maximum



error existing at the low frequency the fiduciary does not correct the

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10. While at an introduction was made to a a civilian representative from the Rome Air Development Center, Rome,	_,	25X1
New York. said their laboratory had conducted extensive tests on Yardney Silvercels and that they had experienced excellent reliability.		25X1
They had, however, experienced the blowing up of mercury cells until the pressure vent was relocated said that data on their battery evaluation was available and could be procured through Air Force liaison. This shall be done.		25X1
		25 <b>X</b> 1